Air Force *Contracting* Information Systems *System Program Directorate*

CONCEPT OF OPERATIONS

28 May 1997

Lt Col Andrew Gilmore
SSG/KI

Outline

- Background
- Mission/Vision
- Objectives & Tasks
- Key Relationships
- Key Processes
- Work Breakdown Structure
- Organizational Issues

Outline

AFCIS SPD

- Background
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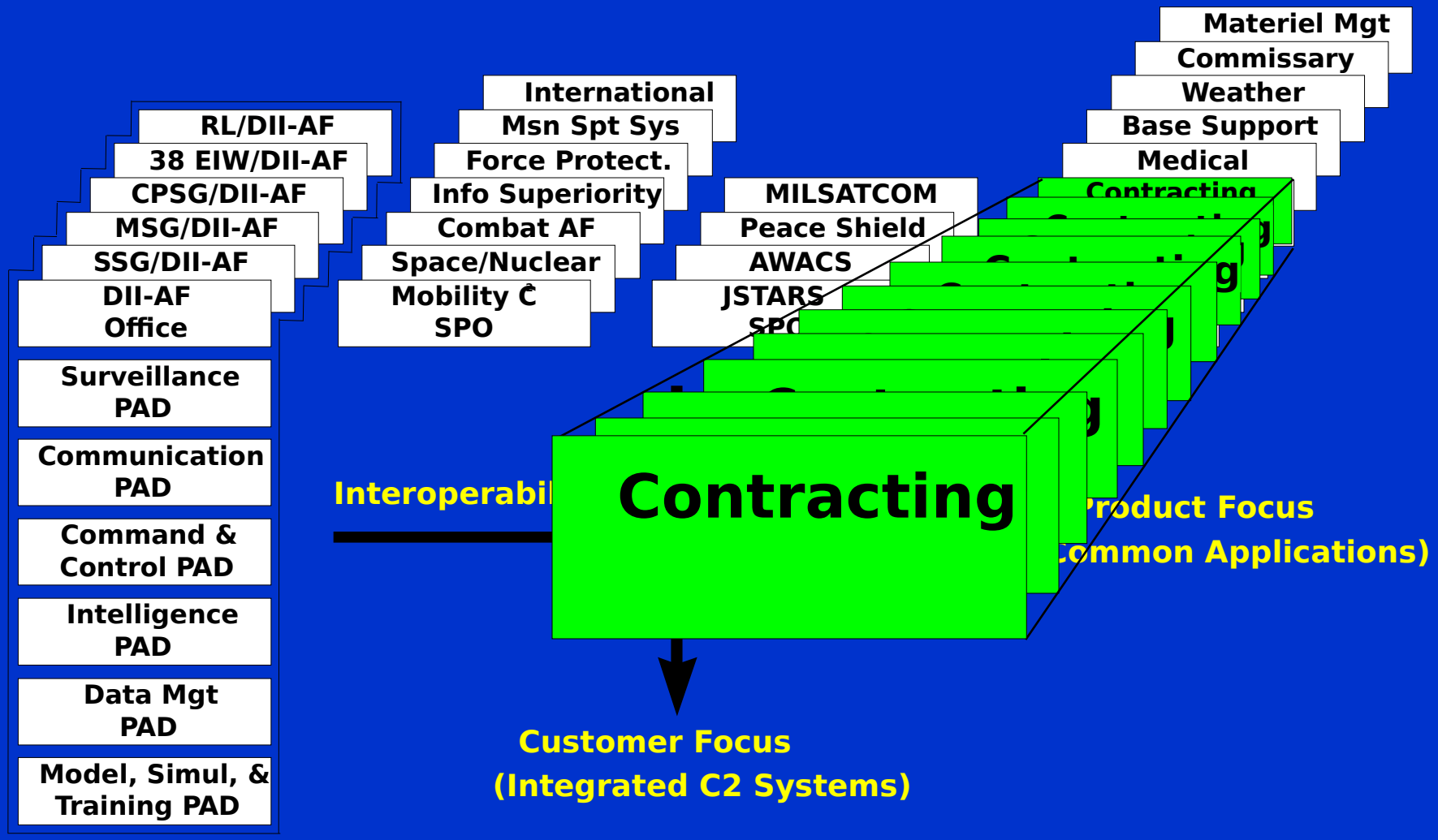
Where We Fit

AFCIS SPD



Background

AFCIS SPD

Prior	1989	1990	1991	1992	1993	1994	1995	1996	1997

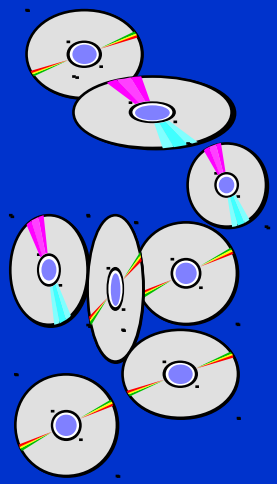
AFSC, AFLC, SSC Develop Independent Systems

- AFLC Spends $70M+ on CDMS
- Procurement CIM Established
- Best of Breed Selects DLA System
- CIM Abandons DLA System
- Standard Procurement System (S
- SPS RFP
- SPS Award
- Single Manager Stu
- SPS Down Selec
- SPD CADRE

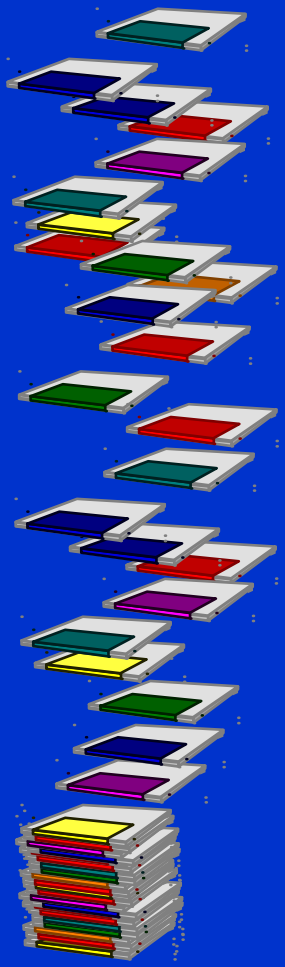
One View of the World

Major Systems

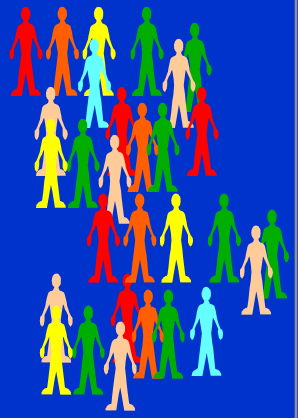
Operating Systems



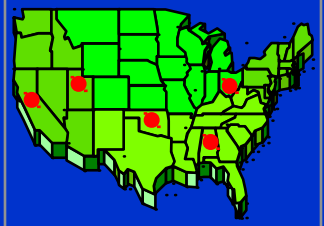
Lines of Code



Users Supported



Development Activities

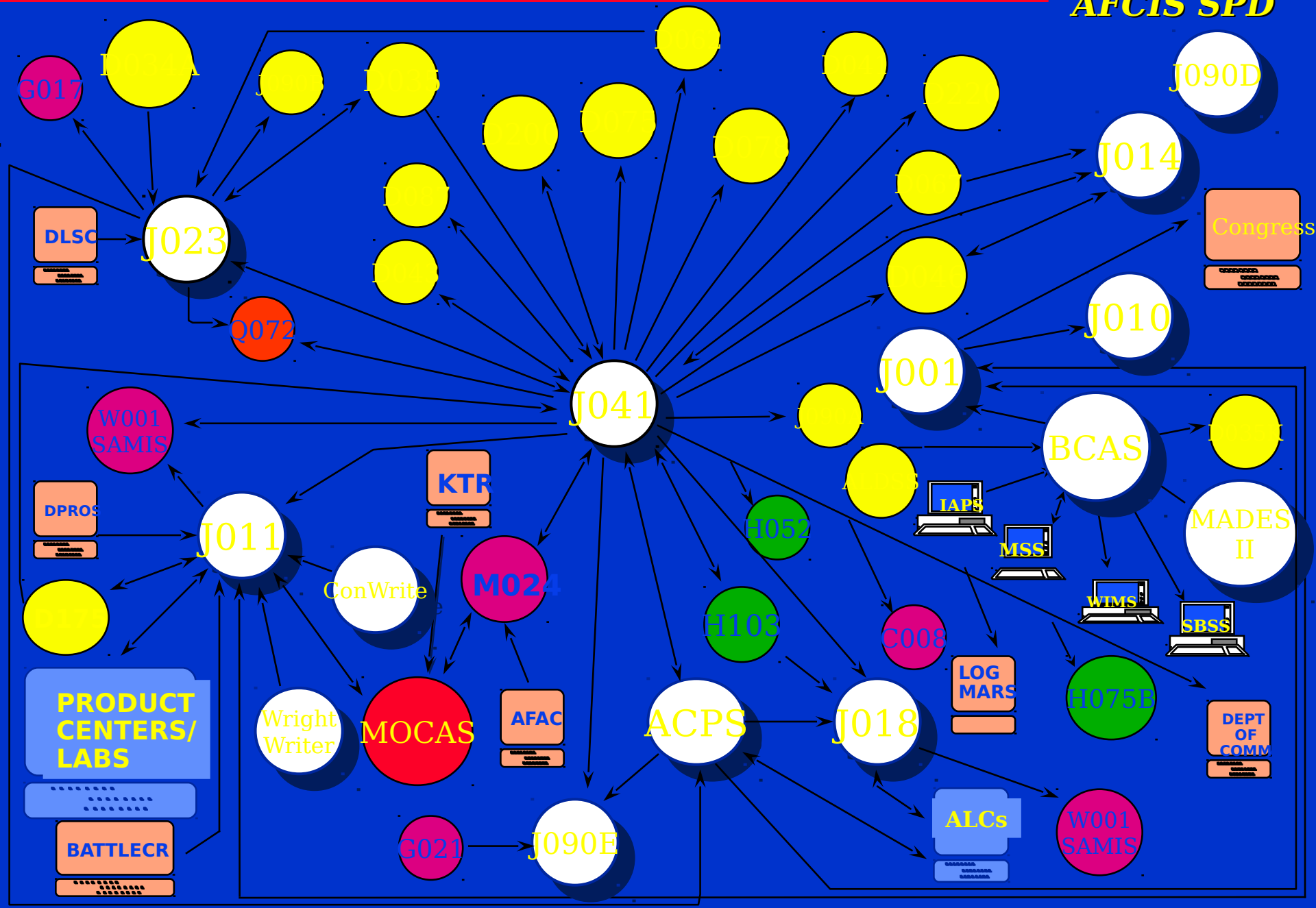


Opinions

21 + 8 + 8,350,000 + 10,000 + 5 = 8,360,034

CURRENT AFMC CONTRACTING LEGACY SYSTEMS INTERFACES

AFCIS SPD



Outline

AFCIS SPD

- Background
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- Organizational Issues

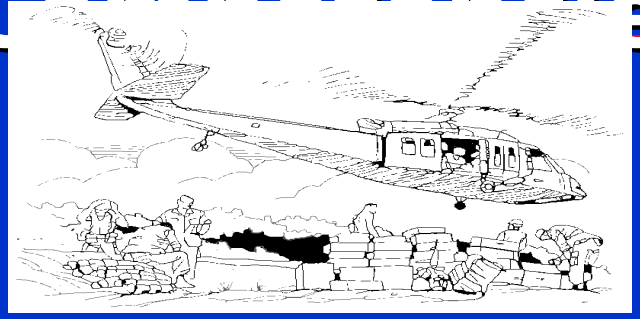
Mission

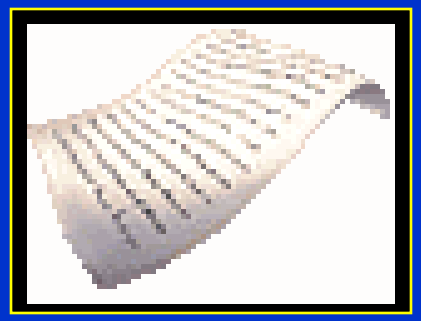
AFCIS SPD

To sustain Air Force contracting information systems and provide business and information technology improvements while transitioning these systems to a standards compliant, responsive, single system to support more efficient and effective contracting operations worldwide in any environment.

Delivering ESC Core Competencies

AFCIS SPD





AFCIS SPD Goals

Data Management

Transforming Data Into Knowledge
Sustaining Missions through Agile Combat Support

Strategy

AFCIS SPD

Assessment

Consolidation

Infrastructure

Deployment

- Maintenance
- Fact of Life

- Consolidate/Eliminate
- Year 2000
- Fact of Life
- Improve Processes

- Communications
- Interfaces
- ORD Requirements
- OT&E Testing

- DII Compliant
- Standard Dat
- Responsive

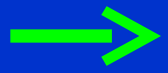
Outline

AFCIS SPD

Background

Mission/Vision

Objectives & Tasks



Key Relationships

Key Processes

Work Breakdown Structure

Organizational Issues

Objectives and Tasks

AFCIS SPD

Objective 1: Develop and implement an effective and efficient sustainment approach for legacy systems

Tasks:

- Achieve Y2K compliance
- Eliminate archaic, redundant, and low ROI capability
- Assess new system development efforts
- Ensure simultaneous policy and system implementation
- Maintain rapid application development capability to support multiple block releases each year

- **Achieve Acquisition Cycle of 18 Months or Less**
- Integrate AF C2 Systems using GCCS/GCSS and DII COE
- **Reduce the Cost of C2 Systems Acquisition**
- Advance the State of the Art
- Integrate ESC - Make IWSM Work
- Act as Entry Point for AF and Joint Battle Labs

ESC GOALS

Objectives and Tasks

AFCIS SPD

Objective 2: **Facilitate reengineering of contracting business pro**
to be responsive to changes across the acquisition

Tasks:

- **Establish Process Reengineering Lab**
- **Identify candidate opportunities for Process Lab integra**
- **Use Process Lab for requirement definition, test, and va**

- **Achieve Acquisition Cycle of 18 Months or Less**
- Integrate AF C2 Systems using GCCS/GCSS and DII COE
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- Advance the State of the Art
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ESC GOALS

Objectives and Tasks

AFCIS SPD

Objective 3: **Leverage Internet technology to make contracting business processes more efficient and effective**

Tasks:

- **Enhance and build upon the success of FARSite**
- **Plan for transition from FACNET to WWW**
- **Use Internet for software distribution**
- **Transition current system documentation to interactive**

ESC GOALS

- **Achieve Acquisition Cycle of 18 Months or Less**
- **Integrate AF C2 Systems using GCCS/GCSS and DII COE**
- **Reduce the Cost of C2 Systems Acquisition**
- **Advance the State of the Art**
- **Integrate ESC - Make IWSM Work**
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Objectives and Tasks

AFCIS SPD

Objective 4: Transition from current legacy systems environmen to the DII COE

Tasks:

- Assess the state of the current legacy system environm
- Identify shortfall in the POM and submit funding require
- Procure and deploy hardware and software infrastructu
- Transition legacy data to DII COE standards and single s

- Achieve Acquisition Cycle of 18 Months or Less
- **Integrate AF C2 Systems using GCCS/GCSS and DII COE**
- **Reduce the Cost of C2 Systems Acquisition**
- Advance the State of the Art
- **Integrate ESC - Make IWSM Work**
- Act as Entry Point for AF and Joint Battle Labs

ESC GOALS

Objectives and Tasks

AFCIS SPD

Objective 5: **Transition AF Contracting to a Single Contracting Sy**

Tasks:

- **Develop a risk assessment of SPS**
- **Execute a migration plan to a single contracting system**

- **Achieve Acquisition Cycle of 18 Months or Less**
- **Integrate AF C2 Systems using GCCS/GCSS and DII COE**
- **Reduce the Cost of C2 Systems Acquisition**
- **Advance the State of the Art**
- **Integrate ESC - Make IWSM Work**
- **Act as Entry Point for AF and Joint Battle Labs**

ESC GOALS

Objectives and Tasks

AFCIS SPD

Objective 6: Fully integrate AFCIS organization to best achieve it

Tasks:

- Institute standard business and development processes
- Employ Virtual Internet Forum to facilitate communicati
- Establish single funding process for all AFCIS organizati

ESC GOALS

- Achieve Acquisition Cycle of 18 Months or Less
- Integrate AF C2 Systems using GCCS/GCSS and DII COE
- Reduce the Cost of C2 Systems Acquisition
- Advance the State of the Art
- **Integrate ESC - Make IWSM Work**
- Act as Entry Point for AF and Joint Battle Labs

Outline

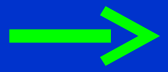
AFCIS SPD

Background

Mission/Vision

Objectives & Tasks

Key Relationships



Key Processes

Work Breakdown Structure

Organizational Issues

Key Relationships

AFCIS SPD

System User	Customer	Other External	Technical Provider	SPO Linkage	PADs
•MAJCOMs •DISA •Other Services •Other Government Agencies	•SAF/AQC •MAJCOMS •HQ AFMC/PK •Strategy Board	•ASC/PK •FAR/DAR •OO-ALC/PK •DFAS • DCMC • EDI Orgs	•SSG •MSG •Industry	•GCSS-AF •Logistics •Financial •Business Support •ESC Center Operations •ADO •EC/EDI PMO •SPS PMO •SSG Staff	•DII-AF •Data Mgt •Informatio • Comm

Systems Supported

- J001 Contract Reporting System
- J001A Contract Reporting Query Sys
- J010 (CPRS)
- J011 (AMIS)
- J014 (MBLS)
- J018 (CIDS)
- J023 (APS)
- J041 (ADIS)
- J090D (UCAMS)
- J090E (VRS)
- MADES
- MADES II
- ACPS
- FARSite
- EC/EDI MADES/MADES II
- J016 (BCAS)
- ACMS
- ConWrite
- ICOD
- CPARS
- ACPS GUI
- C-TRAC
- Contingency Contracting
- Debarred/Suspended Contractor

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Requirements Process

AFCIS SPD

ACC AETC AFSPC AMC USAFE NGB
AFMC AFRES AFSOC AIA PACAF

Contracting Strategy Board

Strategic Objectives

Functional Requirements Board

Prioritized Tasks

System Program Directorate

Taskings, Budgets, Schedules

Developmental Activities

AFCIS Spiral Development

AFCIS SPD

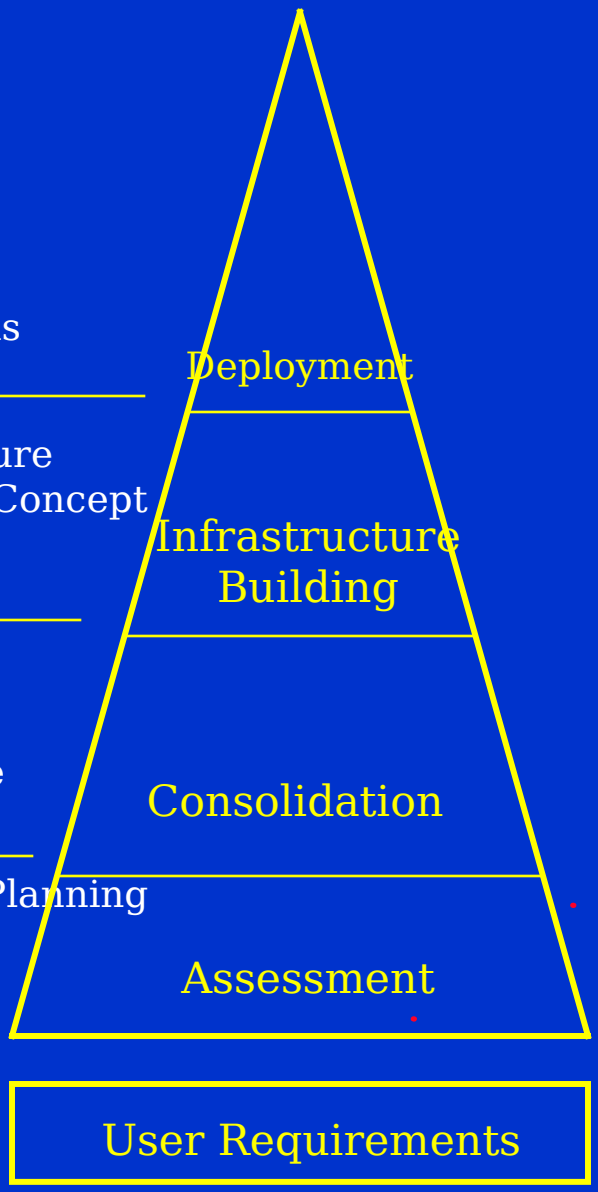
- Single System
- Application
- Decommission Systems

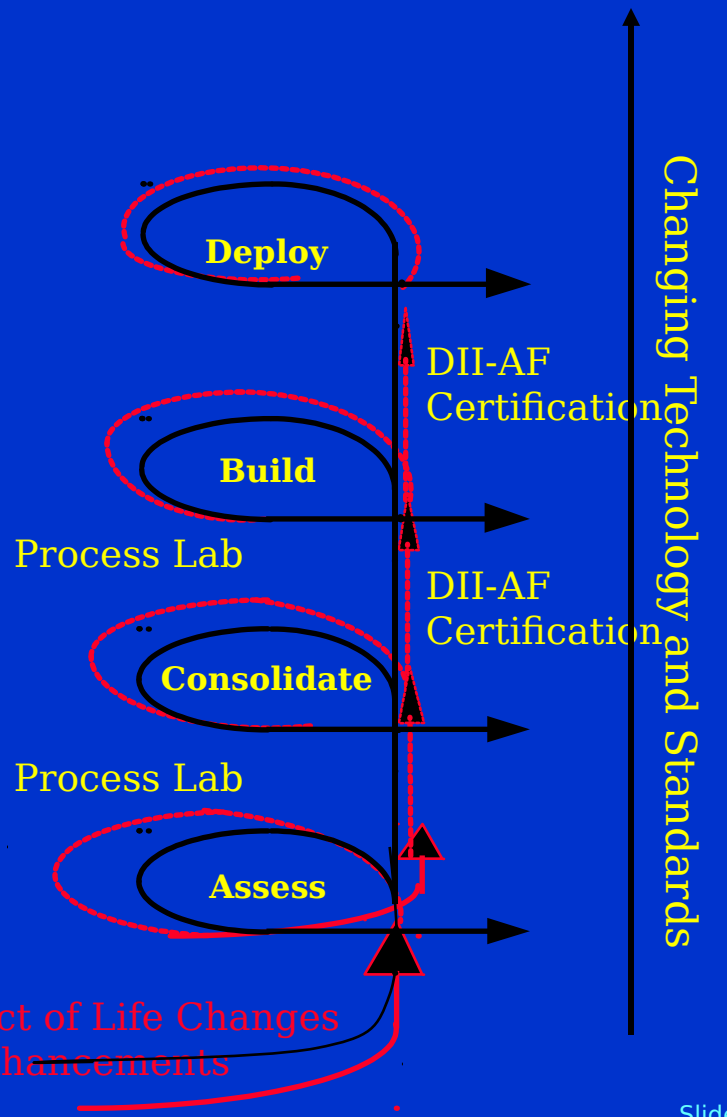
- Compliant Infrastructure
- Prove Single System Concept

- Y2K Implementation
- Reduction of Systems
- Proposed Architecture
- Some Infrastructure

- Y2K Assessment and Planning
- Migration Plan
- Focused Development
- Target Identified

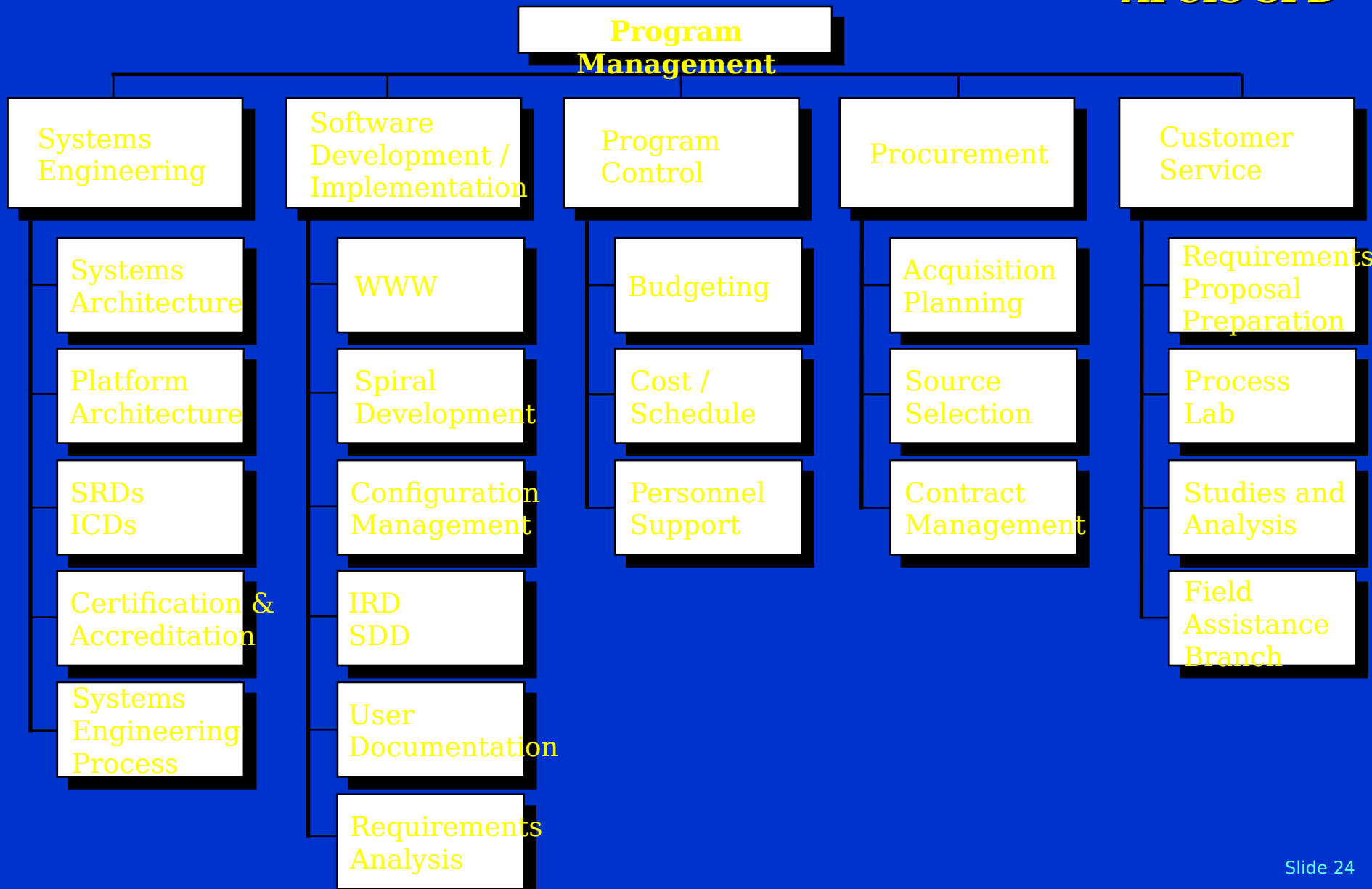
- FRB
- Strategy Board





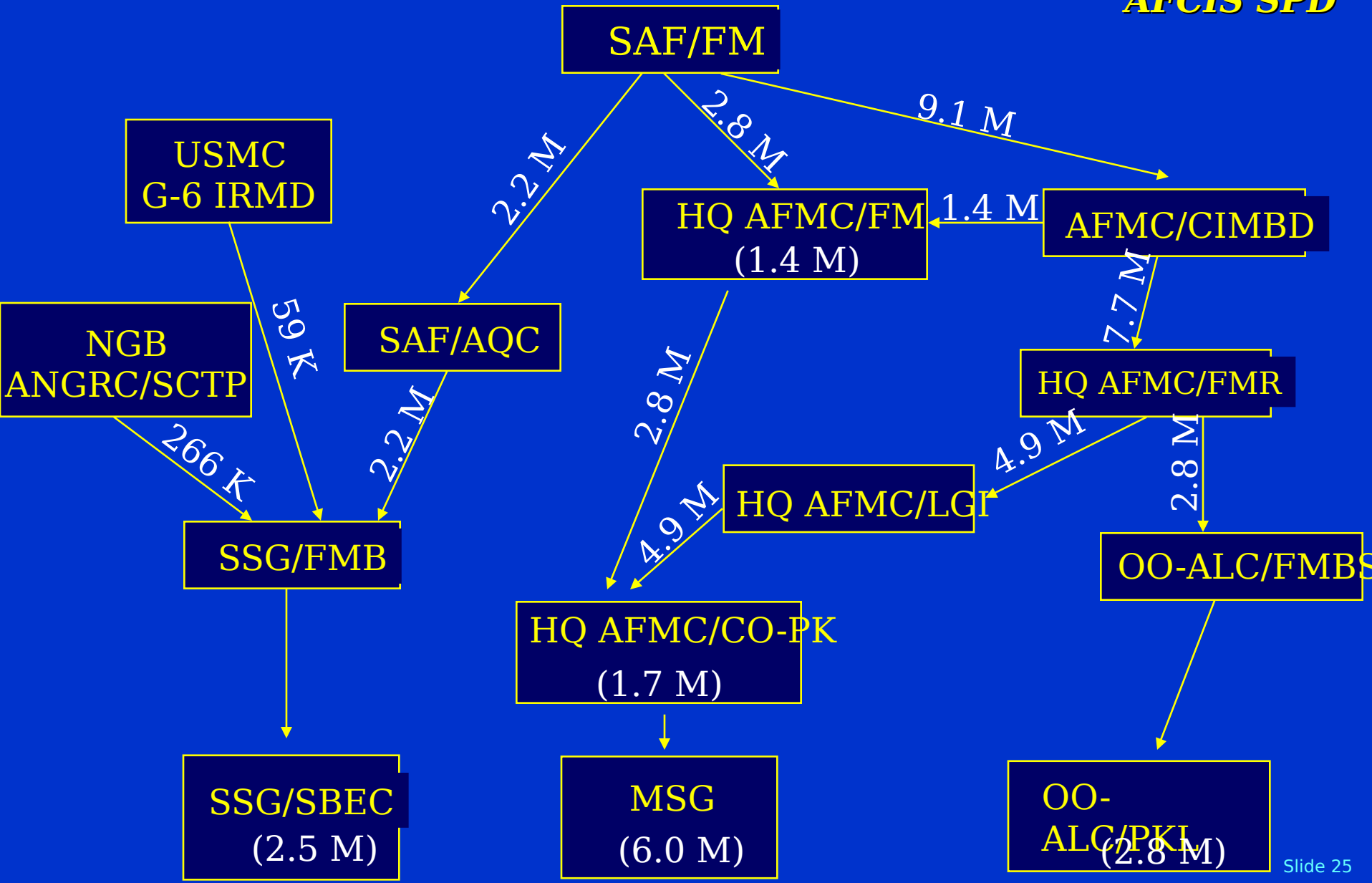
AFCIS WBS

AFCIS SPD



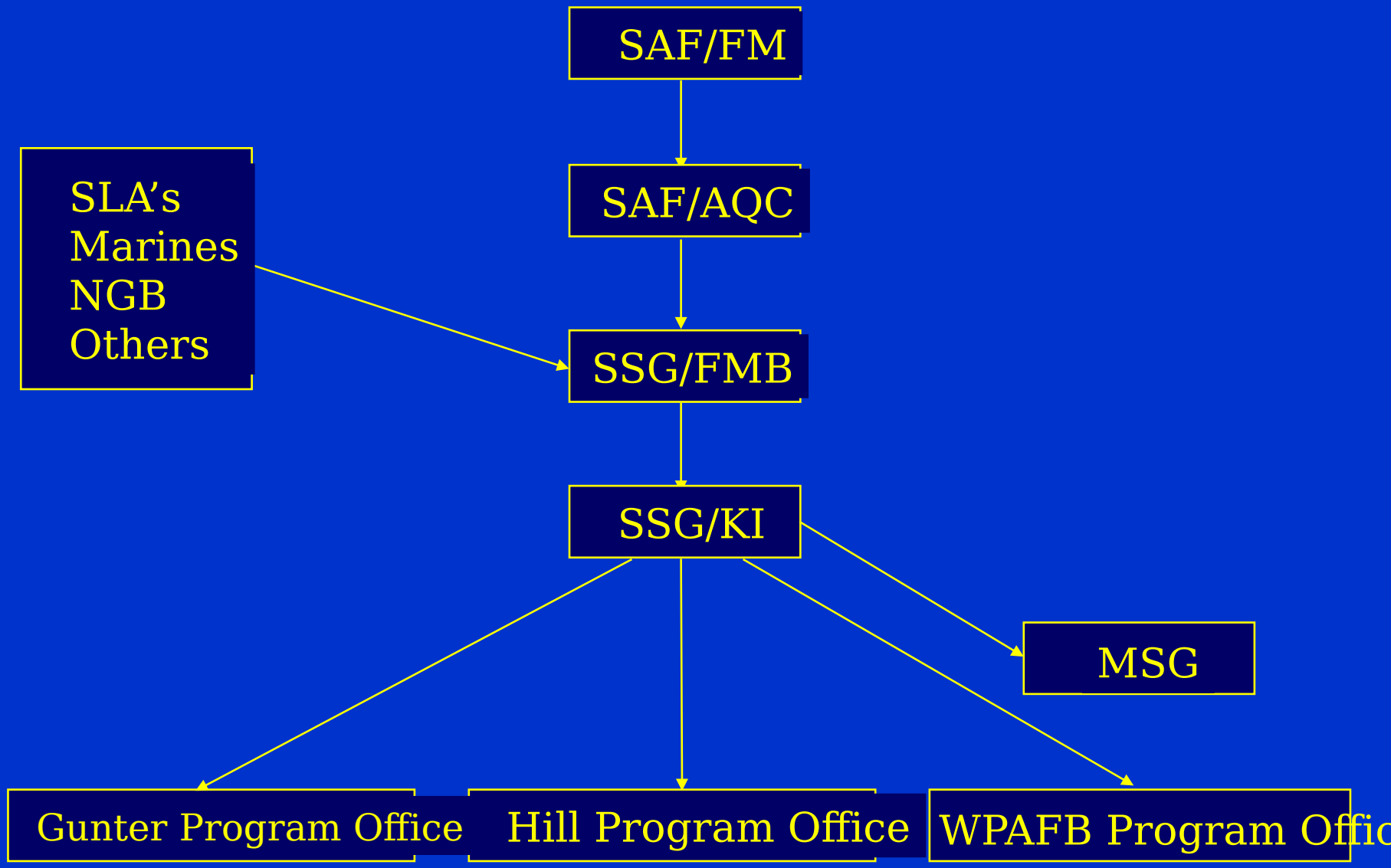
AFCIS Budget Flow FY97

AFCIS SPD



AFCIS Recommended Budget Flow

AFCIS SPD



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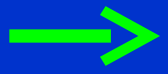
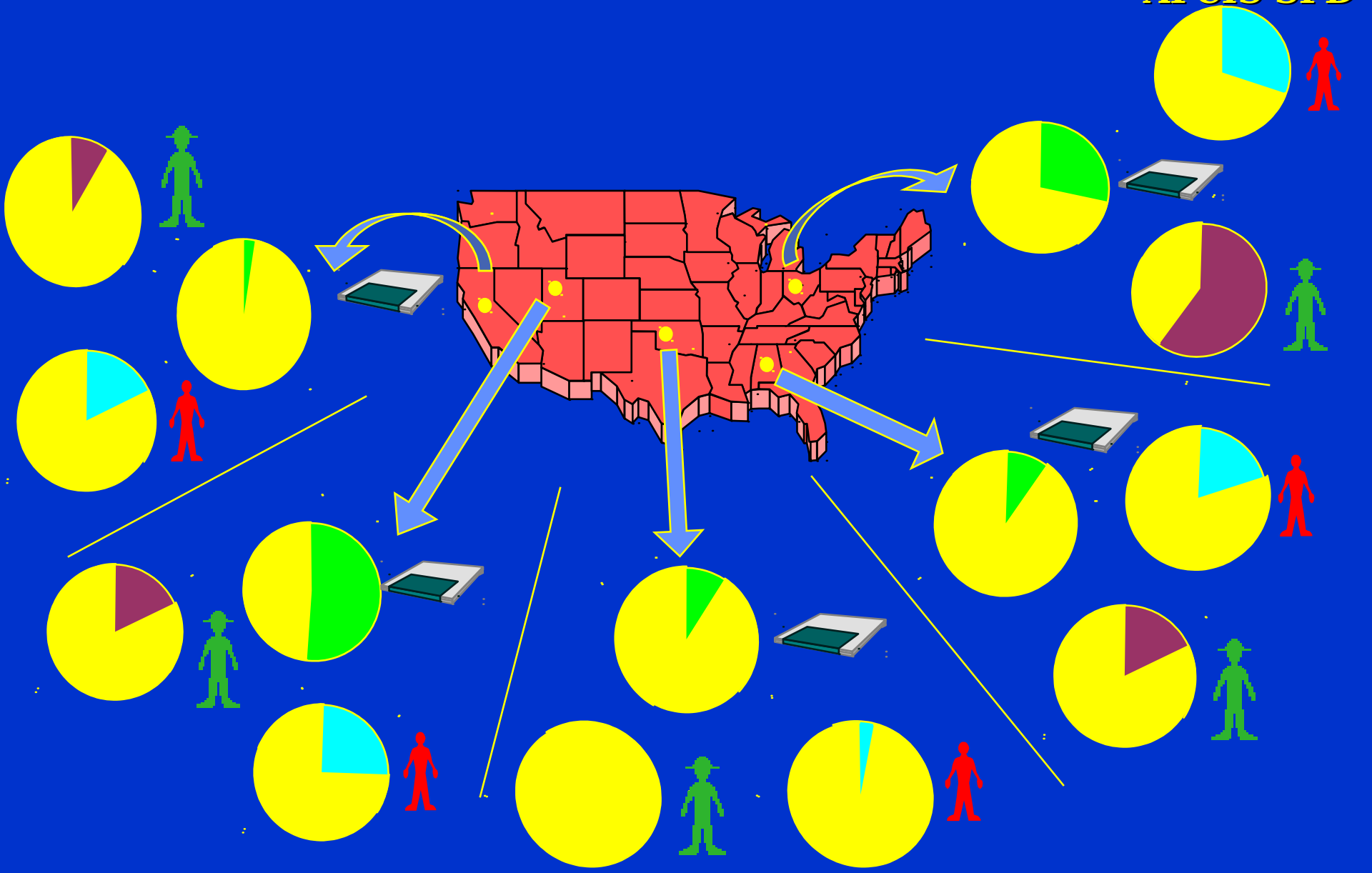


Workload Distribution

AFCIS SPD

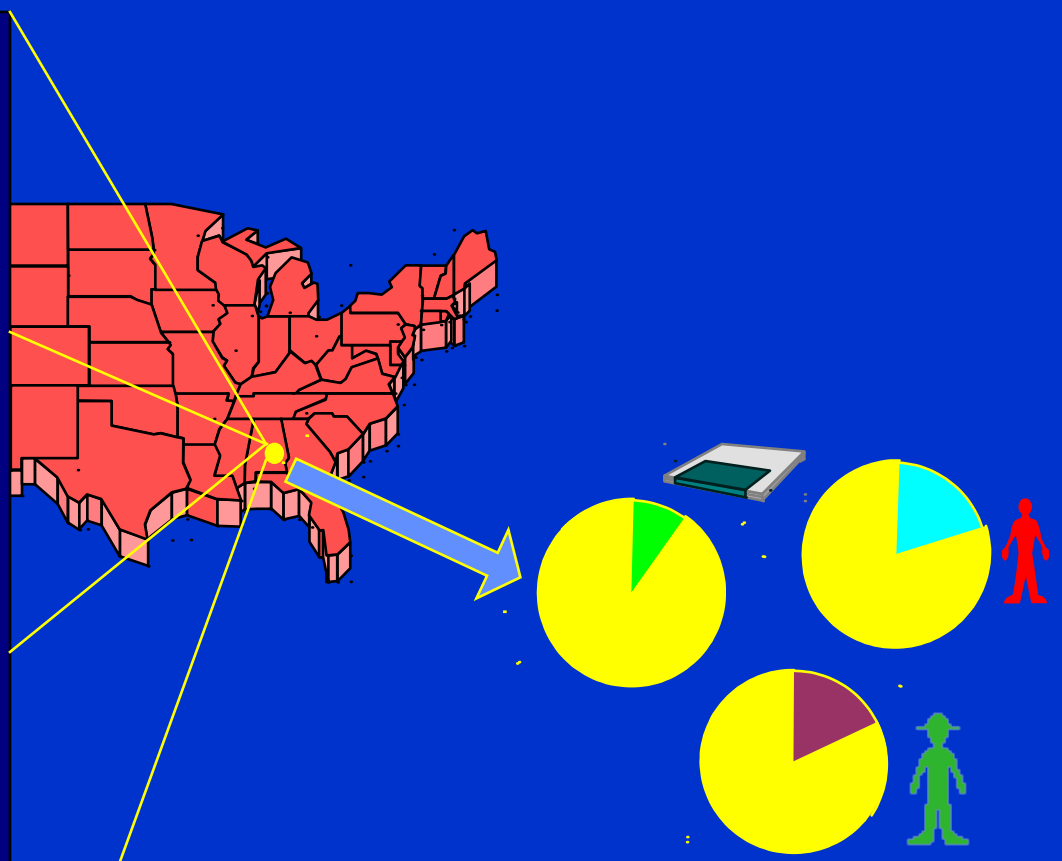


Functional Responsibilities

AFCIS SPD

HQ SSG/SBEC (Gunter)

- Review Requirements
- Determine System Impact
- Interpret Requirements
- Functional Testing
- Writing Test Plans
- Manage Software Releases
- Maintain User Documentation
- Develop Implementation Plans
- Provide Customer Support
- Develop and Conduct Training
- Define System Interfaces
- Review Policy Changes
- Contractor Oversight
- Acquisition Planning
- Program Support



Contracting Functionals	8
Comm/Computer	17
Admin	1
Program Management	1
Total Assigned	27

Functional Responsibilities

HQ AFMC/CO-PK (Wright-Patterson)

- **Programming**
- **Program Management**
- **Process & Data Modeling**
- **Maintaining Clause Logic**
- **Interface Maintenance**
- Review Requirements
- Determine System Impact
- Interpret Requirements
- Functional Testing
- Writing Test Plans
- Manage Software Releases
- Maintain User Documentation
- Develop Implementation Plans
- Provide Customer Support
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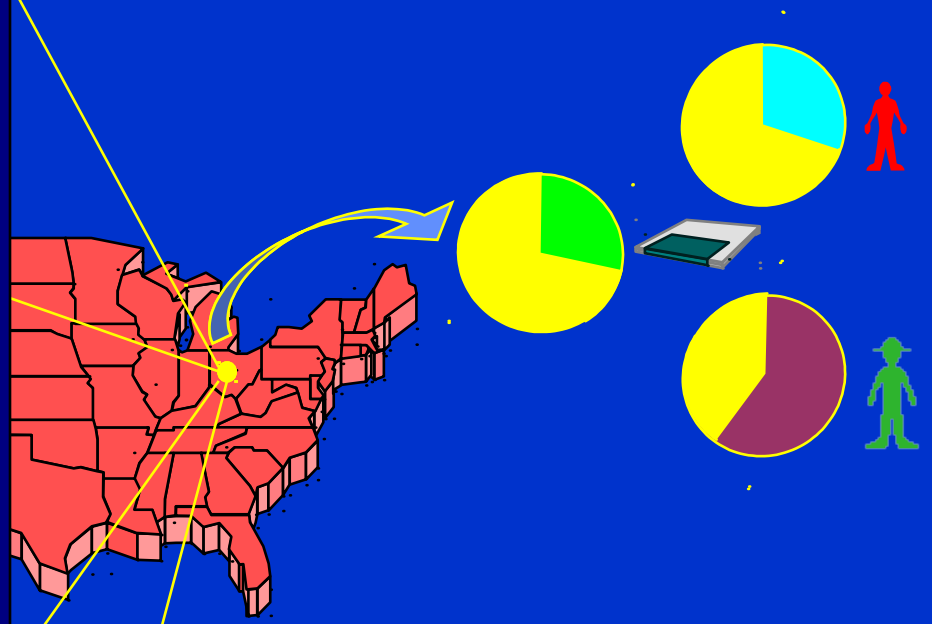
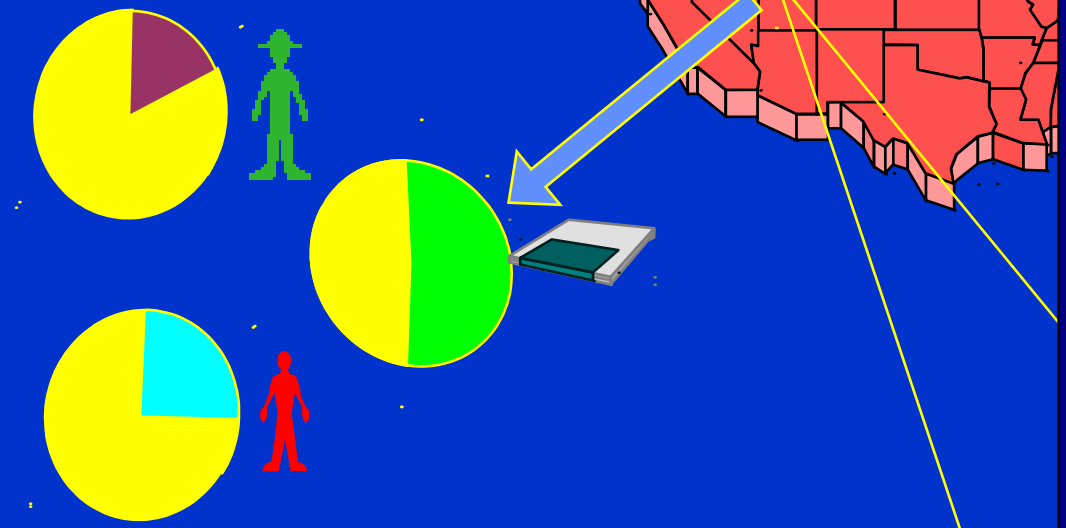


Contracting Functionals	18
Comm/Computer (MSG).....	15
Admin	3
Budget/Accountant	4
Total Assigned	40

Functional Responsibilities



HQ AFMC/CO-PKL (Hill)

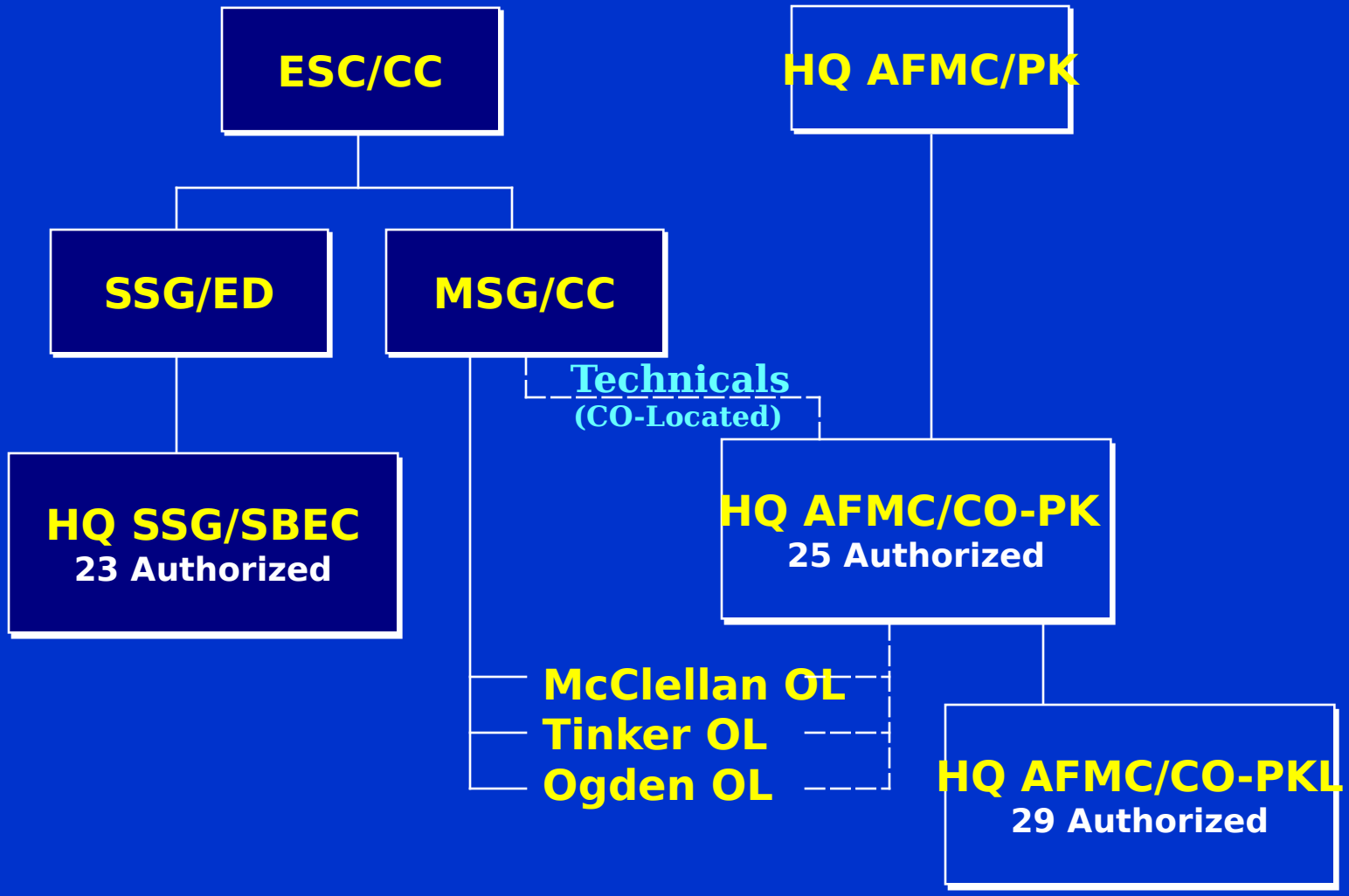
- **Programming**
- **Program Management**
- **Process & Data Modeling**
- **Maintaining Clause Logic**
- **EC/EDI Mapping & Certification**
- **WWW Administration**
- **Interface Maintenance**
- **Review Requirements**
- **Determine System Impact**
- **Interpret Requirements**
- **Functional Testing**
- **Writing Test Plans**
- **Manage Software Releases**
- **Maintain User Documentation**
- **Develop Implementation Plans**
- **Provide Customer Support**
- **Develop and Conduct Training**
- **Define System Interfaces**
- **Review Policy Changes**
- **Contractor Oversight**
- **Acquisition Planning & Program Spt**

Contracting Functionals 15
Comm/Computer 13
Admin 1

Total Assigned
29

Current Organization

AFCIS SPD

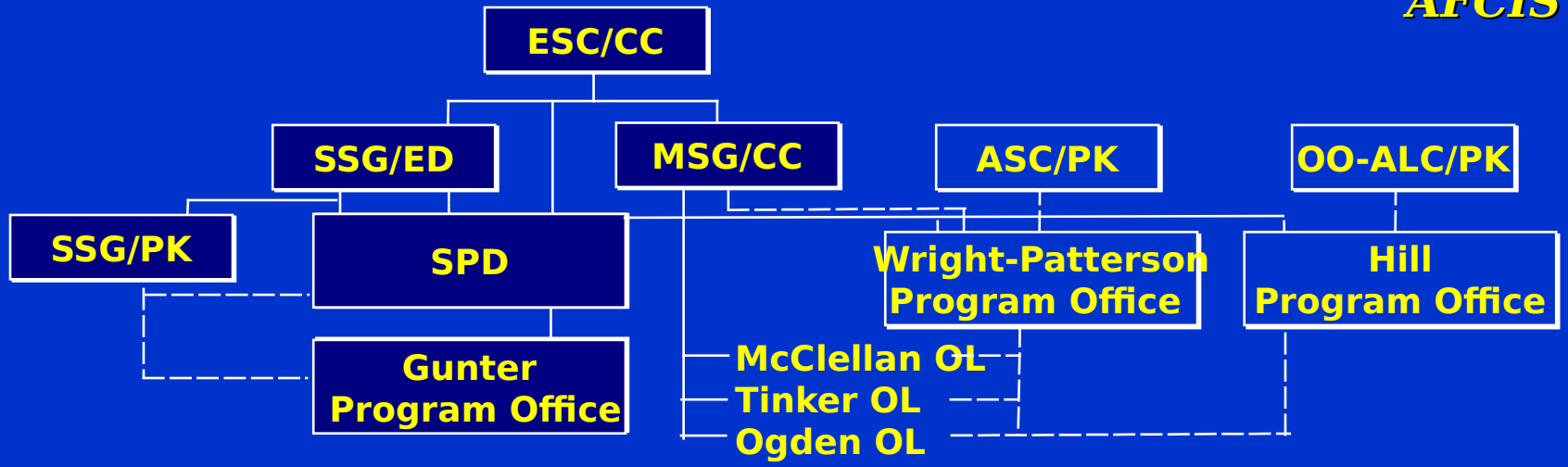


Four Possible Alternatives

- Matrix from Host PKs
- Matrix Most from MSG
- Functionals Under SSG
- All Under SSG

Option 1: Matrix from Host PKs

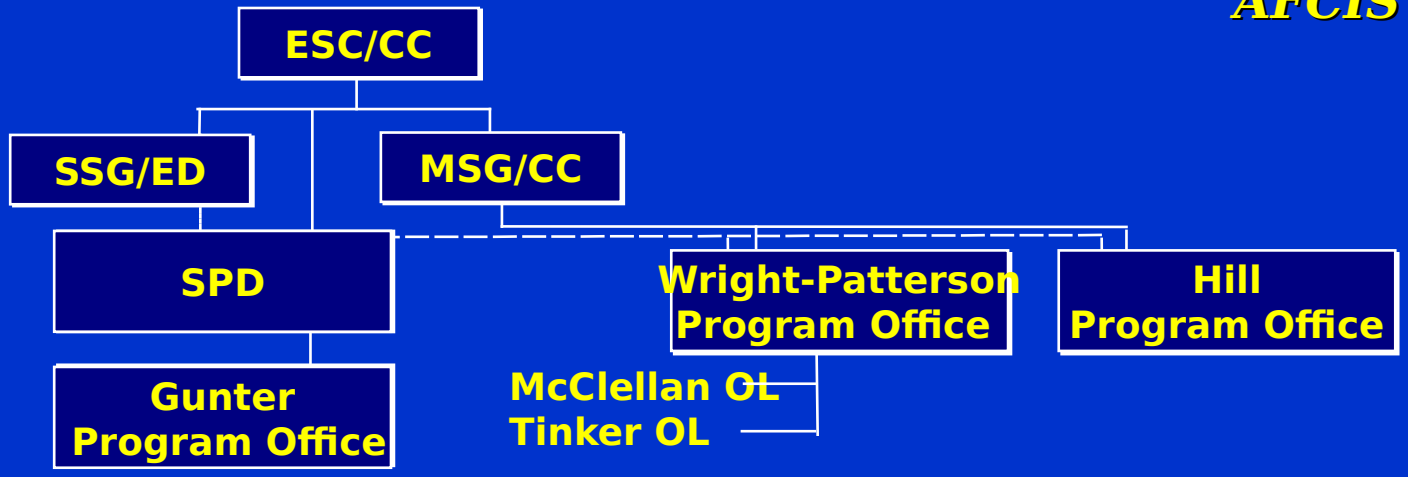
AFCIS SPD



PROS	CONS
• Functional Rotation	• Resources Outside ESC Structure
• Fresh Expertise	• DBOF/Non-DBOF Funding Mix
• No Homesteading	• Increases IT Training Costs
• Professional Dev/Career Mgt	• Difficult Activity Based Costing
• Lower Functional Training Costs	• Inhibits Single Technical
• Provides Functional	

Option 2: Matrix Most from MSG

AFCIS SPD



PROS	CONS
• Resources Inside ESC Structure	• Current Functional Expertise Ltd
• All DBOF Funded	• Promotes Homesteading
• No Added Host Tenant Agreement	• Func/Dev/Career Mgt Limited
• Facilitates Activity Based Costing	• Func Training Costs Increased
• Decreases IT Training Costs	• Inhibits Single Technical Process

Option 3: Functionals Under SSG

AFCIS SPD

PROS	CONS
• Resources Inside ESC Structure	• Current Functional Expertise Ltd
• All DBOF Funded	• Promotes Homesteading
• Facilitates Activity Based Costing	• Func/Dev/Career Mgt Limited
• Decreases IT Training Costs	• Func Training Costs Increased
• Direct Reporting Chain for Func	• Inhibits Single Technical Process

Option 4: All Under SSG

AFCIS SPD

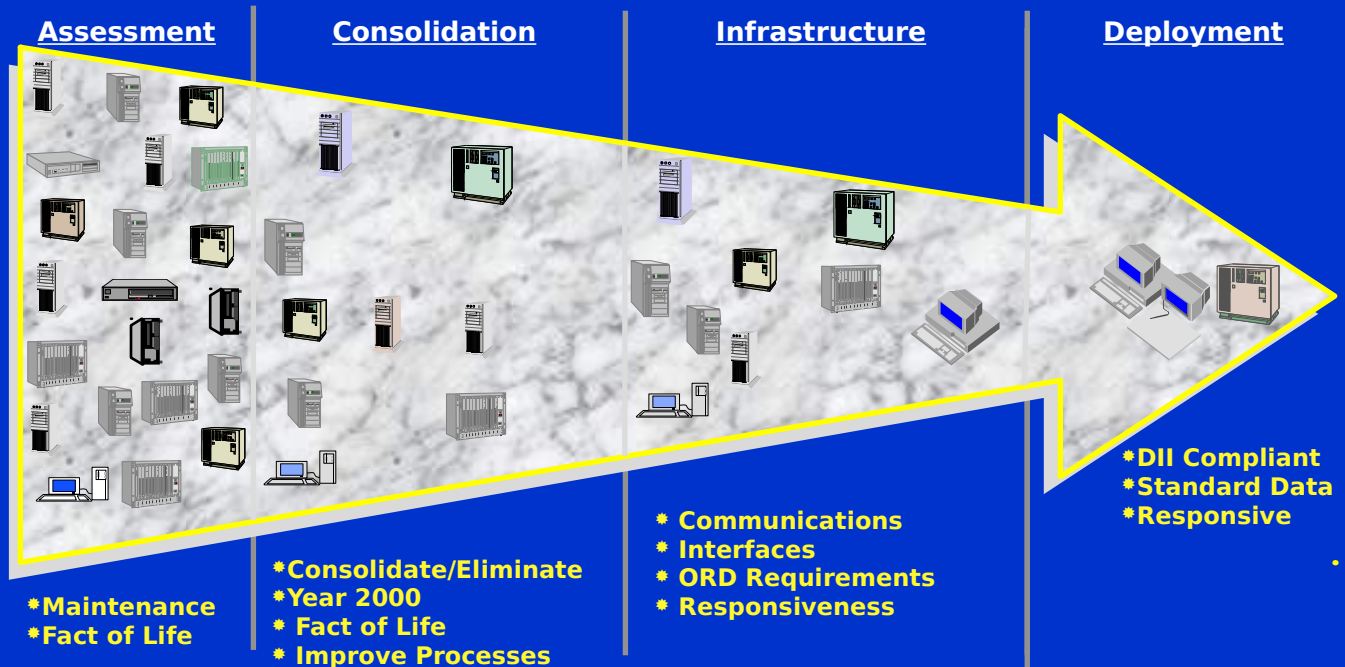
PROS	CONS
• Resources Inside ESC Structure	• Current Functional Expertise Ltd
• All DBOF Funded	• Promotes Homesteading
• Single Chain of Command	• Func/Dev/Career Mgt Limited
• Facilitates Activity Based Costing	• No Functional Surge Capability
• Decreases IT Training Costs	• Func Training Costs Increased

AFCIS Organizational Alternatives

- Matrix from Host PKs
- Matrix Most from MSG
- Functionals Under SSG
- All Under SSG
- Go Back to Drawing Board

Conclusion

- CADRE is Executing the Mission
- Request Permission to .....
  - Complete CONOPS
  - Complete SPD PMI
  - Formally Stand-up SPD



Air Force *Contracting* Information Systems *System Program Directorate*

CONCEPT OF OPERATIONS

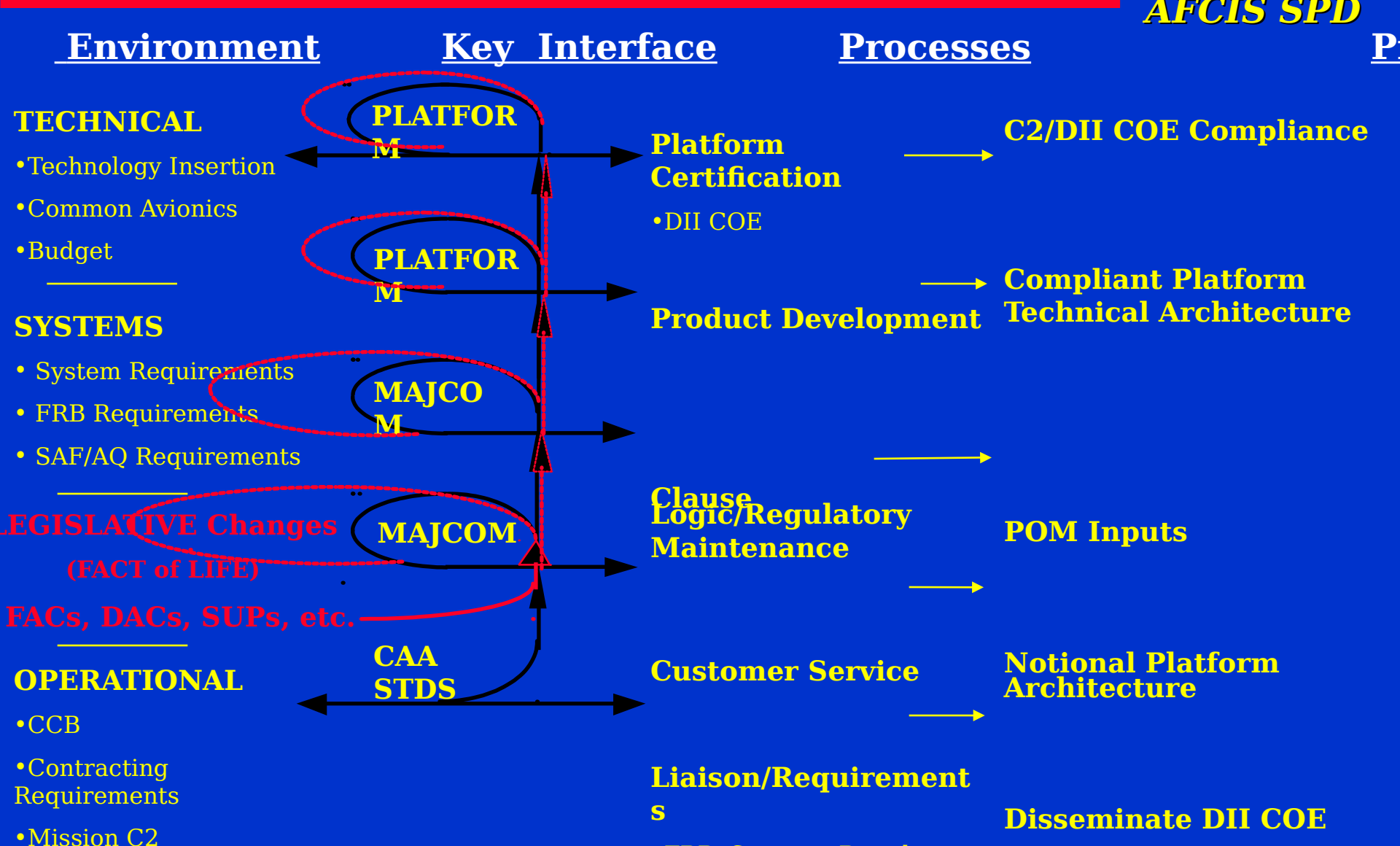
28 May 1997

Lt Col Andrew Gilmore
SSG/KI

BACKUP

AFCIS Spiral Development

AFCIS SPD



PLATFORMS = PCs, NT, UNIX, Data General (To be replaced), Wang (To be replaced)

FRB Goals and Objectives

Goal: Reengineer AFCIS Contracting Business Processes to be Res
to Business Changes Across the Acquisition Cycle

Objectives:
- Leverage the Internet for Use on Contracting Business Pr
- Integrate Computer-Based Training into Reengineered Pr

Goal: Fully Prepare AFCIS to Transition to the SPS and GCSS-AF E

Objectives:
- Integrate Contracting System with GCSS-AF and Future D
- Invest in DII COE, GCSS Compliant Contracting IT Infrast
- Fully Integrate FY97 Follow-On and FY98 Expenditure Pla
- Achieve a Global Shared Information Environment
- Develop Contingency Contracting Capability
- Implement an Efficient and Effective Sustainment Approa

FRB Goals and Objectives

Goal: Transition Legacy Systems to a Standards Compliant Single System

Objectives:
- Achieve Year 2000 Compliance by 31 Dec 98
- Migrate to a Single Contract Writing System
- Assess the Need for Standard Data and Standard Processe
- Optimize the Expenditure of Sustaining FACNET
- Reduce the Number of Currently Deployed & New Contrac

Goal: Achieve Timely Integration of Contracting Policy and Busine

Objective:
- Issue Timely Block Release of AF Contracting Policy Chan

FRB Tasks

AFCIS SPD

1. Sustain Legacy Systems to Minimum Essential Level
2. ID Baseline Infrastructure to Standardize the AF
3. Conduct infrastructure gap analysis
4. Conduct SPS Risk Assessment and mitigation plan
5. Provide approved CSRD for IT purchases to fill gap
6. Plan for migrating off current legacy platforms
7. Integrate FY97/98 budgeted expenditure plans with SPS
8. Develop plan for single AF contract writing system
9. Identify legacy systems and schedule for turn off
10. Plan to eliminate duplication of development effort
11. Implementation plan integrating AFCIS with GCSS-AF & DFAS
12. Implement efficient process for software development/test/integrat
13. Provide contingency contracting capability
14. Review DD350 change process for improvements
15. Develop Y2K compliance plan
16. Develop strategy to standardize EC comm for hardware and softwar
17. Develop concept document migrating to a shared data environment
18. Develop migration plan to satisfy shared /std data requirements
19. Develop internet process for electronic distribution of software upd
20. Develop concept document to provide single input of data

Program Management Instruction (DRAFT)

- **Functional Area Director:** SAF/AQC
- **Implementing Command:** AFMC
- **DAC:** ESC/CC
- **SPD:** Lt Col Gilmore
- **PEM:** SAF/AQCI
- **Specific Direction**
  - **SAF/AQC**
    - Advocates resource requirements
    - Develops strategy and requirements
    - Represents AF in Joint and Interagency Environment
  - **Using Commands**
    - Support Strategy and Requirements Boards
    - Support SPD as needed
  - **AFMC**
    - Establish AFCIS SPO
    - Support Strategy and Requirements Boards
    - Provide Life Cycle Management for all AF Contracting Systems
    - Execute Prioritized Requirements
    - Determine Required Resources

Program Management Instruction (DRAFT)

- **Specific SPD Mission Responsibilities**
  - Sustainment of Legacy Systems
  - Acquire and Transition to a JTA Standard Environment
  - Transition Legacy Systems to the SPS
  - Support Business Process Improvements

DAS (Contracting) [draft PMI]

- Accumulates AF contracting information systems resource requirements and advocates these requirements during the DoD and AF programming and budget cycles
- Through the AF Contracting Strategy Board, develops and approves the AF contracting information systems strategic objectives
- Through the AF contracting Functional Requirements Board collects, assesses, defines, and prioritizes functional requirements based on AF contracting strategic objectives
- Provides prioritized functional requirements to the SPD for implementation
- Represents consolidated AF contracting policy, business process, and functional requirements views to the SPS program office, other DoD procurement agencies, and at the interagency level

Using Commands [draft PMI]

- **Support the AF Contracting Strategy Board and Functional Requirements Board**

- **Designate a MAJCOM point of contact to the SPD not later than 30 days from the approval of this program management instruction, who will have the overall responsibility for providing support as determined by the SPD**

- **Provide support as determined by the SPD toward achieving the stated contracting information system's objectives and functional requirements**

SPD [draft PMI]

- Act as a permanent advisor to the AF Contracting Strategy Board
- Designate a permanent advisor to the AF Functional Requirements Board
- Provide life-cycle program management for all AF contracting information systems
- Execute the written, prioritized functional requirements within the agreed to program baseline, and in accordance with the SAF/AQC approved AF Contracting Requirements Process (referenced document)
- Determine required resources to execute functional requirements, and request necessary technical and customer representative resources from the parent organizations
- Provide AF contracting information systems implementation instructions to the using commands
- Request support as necessary from the designated using command point of contacts

SSG [draft PMI]

- **Establish and maintain an AF Contracting Information Systems Program Office (SSG/CI) to implement the stated objectives for all AF contracting information systems**

- **Provide day-to-day guidance to the SPD as part of the DAC staff**

MSG [draft PMI]

- **Establish and maintain technical resources and capabilities to support the SPD in implementing the stated objectives**

- **Matrix the technical resources to the SPD, as determined by the SPD; and assign and reassign resources only with the SPD's written approval**

OO-ALC/PK & ASC/PK [draft PMI]

- Establish and maintain “customer representatives,” (contracting functional resources (i.e., 1102s and 64Ps) that assist with the definition and implementation of functional requirements) and to support the SPD in implementing the stated objectives

- Matrix the customer representatives to the SPD, as determined by the SPD; and assign and reassign resources only with the SPD’s written approval